

CLEAN VERSION FOR EXAMINER'S CONVENIENCE1002 #4 vs DNAC = I

1. (PREVIOUSLY AMENDED) An isolated DNA molecule comprising a nucleotide sequence encoding a protein comprising the amino acid sequence of SEQ ID NO:4, wherein said protein has lysozyme activity.

2. (CANCELLED)

3. (PREVIOUSLY AMENDED) The DNA molecule of Claim 1 wherein said nucleotide sequence comprises the nucleotide sequence of nucleotides 81-521 of SEQ ID NO:3.

4. (CANCELLED)

5. (CANCELLED)

6. (ORIGINAL) A vector containing the DNA sequence of Claim 1.

7. (ORIGINAL) A host cell transformed by the vector of Claim 6.

8. (PREVIOUSLY AMENDED) The host cell of claim 7 which is *E. coli*.

81-521 #3 vs DNAC = I

9. (PREVIOUSLY AMENDED) The host cell of claim 7 which is a eukaryotic cell.

✓ 10. (PREVIOUSLY AMENDED) A method for producing a LYC3 protein having lysozyme activity comprising:

(a) introducing an expression vector for production of LYC3 protein, said vector comprising a nucleotide sequence encoding a protein having the amino acid sequence of SEQ ID NO:4 or <sup>consisting</sup> of amino acids 19-146 of SEQ ID NO:4, wherein said 19-146 #4 vs DNA nucleotide sequence is operably linked to at least one expression control sequence, into a host cell, thereby forming a recombinant host cell;

(b) culturing the recombinant host cell of (a) under conditions suitable for expression of the DNA molecule encoding the protein, such that LYC3 protein is produced; and

(c) isolating the LYC3 protein so produced.

11. (ORIGINAL) The method of Claim 10 wherein said nucleotide sequence comprises nucleotides 81-521 of SEQ ID NO:3.

12. (CANCELLED)

13. (CANCELLED)

14. (CANCELLED)

15. (PREVIOUSLY ADDED) An isolated LYC3 protein having lysozyme activity comprising a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:4 and amino acids 19-146 of SEQ ID NO:4.

✓ 16. (PREVIOUSLY ADDED) An isolated DNA molecule having a nucleotide sequence encoding a protein [having] the amino acid sequence of amino acids 19-146 of SEQ ID NO:4, wherein said protein has lysozyme activity.

✓ 17. (PREVIOUSLY ADDED) A method for producing a LYC3 protein comprising:

O *duPLICATE claim*

(a) introducing an expression vector for production of LYC3 protein, said vector comprising a nucleotide sequence encoding a polypeptide [having] the amino acid sequence of SEQ ID NO:4 or of amino acids 19-146 of SEQ ID NO:4, wherein said nucleotide sequence is operably linked to at least one expression control sequence, into a

host cell, thereby forming a recombinant host cell;

- (b) culturing the recombinant host cell of (a) under conditions suitable for expression of the DNA molecule encoding the polypeptide, such that LYC3 protein is produced; and
- (c) isolating the LYC3 protein so produced.

? wherein said nucleotide sequence comprises nucleotides 81-521 of SEQ ID NO:3.

18. (NEW) An isolated DNA molecule having a nucleotide sequence encoding a lysozyme consisting of the amino acid sequence of amino acids 19-146 of SEQ ID NO:4, wherein said lysozyme has lysozyme activity.